1998 Paper 6 Question 7

Prolog for Artificial Intelligence

According to the rules of the Billy Badger Fan Club, an applicant is acceptable for membership provided that:

- The applicant must have two proposers who are members of the club.

- The applicant must be aged between 18 and 30 years of age (inclusive).

- Each proposer must have been a member for at least two years.

- Each proposer must not be a parent of the applicant.

Write a Prolog program that includes a rule for deciding whether an applicant is acceptable for membership, illustrating with a sample database.   [20 marks]